# RANDALL N. HYER CEO June 2023



# MER-101 (USP6) ACTIVATES SEVERAL IMMUNO-STIMULATORY



## EPIDEMIOLOGICAL DATA VALIDATES USP6 AS A UNIQUE IMMUNOTHERAPY TARGET







### **Proof of principle**

### Intratumoral USP6 mRNA suppresses Ewing sarcoma tumorigenesis and triggers intratumoral and systemic immune activation





0.0355

Intratumoral immune infiltration









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-111-10-10-9-

mCXCL10 mCD69 0.0354 40· <sup>30-</sup> 20-% 10-10-GFP USP6 GFP USP6



# FDA GUIDANCE ENABLES CLINICAL ENTRY IN 2024 WITH TOPLINE DATA 2025202420252026



**MER-101** 

#### **MER-101 HAS LARGE MARKET SIZE DRIVEN BY POTENTIAL MER-101 APPLICATION TO NUMEROUS CANCERS AND EXPANSION OPPORTUNITIES US Revenue Model\*** 2034 2030 **5 year cumulative** Solid Tumor Market 130,000,000,000 199,000,000,000 Immunotherapy Capture 63,000,000,000 95,000,000,000 9,400,000,000 14,300,000,000 \$2,069,287,658 Est. VA Price/Cycle 18,100 15,500 Cycles/Yearly 668,000 869,000 Market Capture 5% 1% **Yearly Revenue** \$103,000,000 \$787,000,000 MER-101 broad immuno-modulator: **Upside opportunities** Numerous potential indications. Market penetration COGS reduction Expansion to adjuvant/neo-adjuvant. > Pricing Tier increase Expansion to combination with other immunotherapies.

\*Detailed calculations provided in appendix

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## **INVESTMENT SUMMARY**

#### Lead Asset MER-101:

)	Novel, 1st-in-class cancer immunotherapy with
	exclusive IP in major world-wide markets.

**Demonstrated efficacy** in multiple mouse models with supporting human epidemiological survival data.

Data supports **cancer agnostic indication** with an adult injectable tumor market conservative initial 5-year sales cumulative estimate at ~**\$2 billion.** 

Development in pediatric sarcomas can **expedite approvals with a Ph1/2 readout in 2026 H1** with eligibility for a ~\$100M+ priority review voucher.

### **Financials and timeline:** Current Funding \$650K Pennsylvania state grant (Non-dilutive) \$ \$105K **SAFE Notes** Seeking Tranche of \$20M \$5M to advance MER-101 to IND (target 2024 H1) \$15M to generate MER-101 Phase 1/2 data (target: 2026 H1)

